

ROBUST SUMMARY
ALKYL SULFIDE CATEGORY
CAS # 68515-88-8
HEALTH ELEMENTS: ACUTE TOXICITY

<u>Test Substance</u>	
CAS #	CAS# 68515-88-8
Chemical Name	Pentene, 2,4,4-trimethyl-, sulfurized
Remarks	97% purity This chemical is also referred to as trimethyl pentene derivative in the HERTG's Test Plan for Alkyl Sulfide Category. For more information on the chemical, see Section 2.0 "Chemical Description of Alkyl Sulfide Category" in HERTG's Test Plan for Alkyl Sulfide Category.
<u>Method</u>	
Method/Guideline followed	FHSA Regulations 16 CFR 1500.40
Test Type	Acute dermal toxicity
GLP (Y/N)	Y
Year (Study Performed)	1986
Species/Strain	Young, adult New Zealand white rabbits
Sex	Male and female
No. of animals/sex/dose	5
Vehicle	Mineral oil-based material dosed undiluted
Route of administration	Dermal application
Remarks field for test conditions	The sample was applied to unabrased shaved skin under impervious occlusion for 24 hours at a limit dose of 2.0 mg/kg. At the end of the 24-hour exposure period, the wrapping was removed any unabsorbed test material remaining on the skin was removed by gentle sponging using a paper towel moistened with mineral oil. The animals were observed for signs of toxicity or behavioral changes frequently on the day of treatment. Thereafter, all surviving rabbits were examined for outward signs of toxicity one per day, for the entire 14-day observation period. Individual weights were recorded on the day of dosage, weekly thereafter and prior to sacrifice. The surviving animals were euthanized at the conclusion of the observation period. Gross autopsies were performed on all animals after 14 days.
<u>Results</u>	LD50 > 2.0 gm/kg
Remarks	One rabbit died on day 14 of the study. No other deaths were observed during the 14-day observation period. In the male group, mild skin erythema and mild-to-moderate edema were observed after unwrapping at 24 hours. Slight to mild skin irritation noted at 7 day was completely resolved by day 14. A loss of body weight was noted for 1/5 male animals at day 7. The same animal was found dead on day 14 after experiencing a bloated appearance. Signs of dehydration and no formed fecal material in the intestinal tract were noted for the one mortality. Other than the previous observation, all animals appeared normal throughout the 14-day observation period. In the females, skin reactions were typical of those observed with the male group. A loss of body weight was noted in one female at day 7. Gross pathological

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	examination of the female rabbits revealed no remarkable findings.
<u>Conclusions</u>	The test article, when dosed as supplied and studied in 5 males and 5 female albino rabbits, appears to have an acute dermal LD50 greater than 2.0 gm/kg.
<u>Data Quality</u>	Reliable without restriction (Klimisch Code)
<u>References</u>	This robust summary was prepared from an unpublished study by an individual member company of the HERTG (the underlying study contains confidential business information).
<u>Other</u>	Updated: 12-27-99